

Hazardous Materials Business

Plan Training Topic 3



**Persons Trained: Hazardous
Material/Waste Handlers
(Annual Training Requirement)**

LEARNING OBJECTIVES

- **Terminal Objective:** Meet the Hazardous Materials Business Plan annual training requirement for using our unit's spill equipment.
- **Enabling Objectives:**
 - Respond to an “incidental spill” effectively, efficiently, and economically.
 - Recognize “emergency response” situations.
 - Be familiar with spill equipment on-hand: pads, shop towels, wringer, neutralizing agents, eyewash, PPE, fire extinguisher.

BACKGROUND

- We use hazardous materials daily in maintenance, repair, and cleaning activities. Some are dangerous to human and environmental health because of the large quantity or toxicity.
- Though we do our best to handle hazmat safely to prevent spills, leaks, and other mishaps – accidents do happen. Most accidental spills and leaks are minor and within our response capabilities.
- We must know how to use the spill response equipment we have on-hand to effectively and economically control, clean-up a spill, or otherwise neutralize a hazard.

HAZARDOUS MATERIAL BUSINESS PLAN

- The Hazardous Material Business Plan is a Health & Safety Code requirement for units with hazardous materials in quantities over listed thresholds.
- Four Sections:
 - I. Hazardous Materials Inventory
 - II. Emergency Response Plan w/Site Map
 - III. Employee Training Description
 - IV. Emergency Equipment Inventory**

SECTION IV

EMERGENCY RESPONSE EQUIPMENT

- Inventories our spill response equipment on-hand.
- Includes absorbents, booms, pad wringer, spill containment devices, drip pans, personal protection equipment, communication equipment (whistle, horn, siren, inter-com, etc) .
- Equipment is inspected weekly to ensure it is stocked and ready to use when needed.
- Equipment is re-stocked, replaced, or repaired as needed.

INCIDENTAL SPILLS

(Non-Emergency Spills)

- Spill control and clean-up within the unit's capability.
- Unit's are required to have adequate spill response
- Unit personnel familiar with hazards present and able to adequately protect against them.



SPILL RESPONSE

EQUIPMENT

- Shop Towels
- Absorbent Pads
- Absorbent Socks
- Pad Wringer
- POL Mops
- Mercury Spill Kit
- Neutralizers

Have spill response and clean up equipment on-hand when handling hazmat, but especially when pouring, spraying, or transferring hazmat.

When cleaning up spills, use a limited number of shop towels, pads, or oil mops repeatedly by wringing them out. This will reduce waste.

Spills need to be cleaned immediately from shop floors, hangar decks, soil, secondary containment areas, flight line

SPILL RESPONSE

EQUIPMENT (2 of 2)

- Mercury Spill Kit should be on-hand if test equipment, thermometers, gauges, etc are used that contain Hg.
- Neutralizers should be on-hand:
 - Acids: neutralize with a weak alkali (sodium bicarbonate or baking soda).
 - Alkalis: neutralize with a weak acid (boric acid).

SPILL CONTAINMENT

- Berming
- Diking
- Diverting
- Blocking

Waste Accumulation Sites have concrete bermed containment cells. Shop towels and pads can be rolled up and used for berming or diking spills.

Towels and pads could also be used to divert spills away from storm and sewer drains or to block the drain to prevent the spill from causing further or increased contamination.

DEMONSTRATION

- Let me demonstrate berming, diking, diverting, and blocking techniques with towels and pads.
- Point out storm drains and sanitary sewers in your work area that may be affected by a spill.
- Demonstrate the use of permanent secondary containment in your work area, i.e., the drain valves at your waste site or above ground storage tanks.

FIRE EXTINGUISHERS

- **Pull** the pin at the top of the extinguisher that keeps the handle from being accidentally pressed.
- **Aim** the nozzle toward the base of the fire.
- **Squeeze** the handle to discharge the extinguisher while standing about 8 feet away from the fire.
- **Sweep** the nozzle back and forth at the fire's base.

P A S S

Pull, Aim, Squeeze, and Sweep



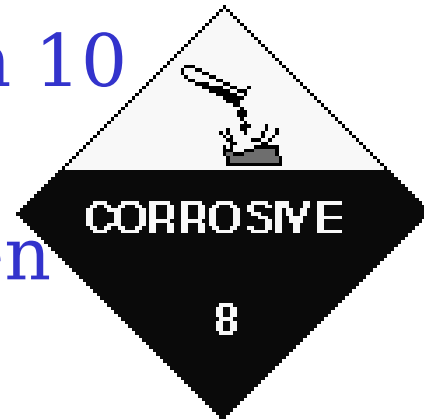
Call 911 or pull the alarm in
case of fire!



Contact the Miramar Fire Dept for fire
extinguisher assistance at 577-4059 (not
911)

EYEWASH/SHOWER

- Required for any environment that exposes workers to "injurious corrosive materials."
 - Waste Accumulation Sites
 - Work areas where acids or bases are handled
- “Immediately” available or within 10 seconds of walking.
- Must flow freely for at least fifteen minutes.
- Contact Station Safety for assistance.



PERSONAL PROTECTIVE EQUIPMENT (PPE) (1 of 3)

- **Gloves**: Choose the right glove when handling hazardous chemicals
 - Butyl Rubber, Nitrile, Latex, Viton, etc.
 - Disposal or Re-usable.
- **Eye Protection**: In case of splash hazards, dust/dirt, flying objects
 - Goggles
 - Safety Glasses
 - Face Shield (worn w/goggles or safety glasses)

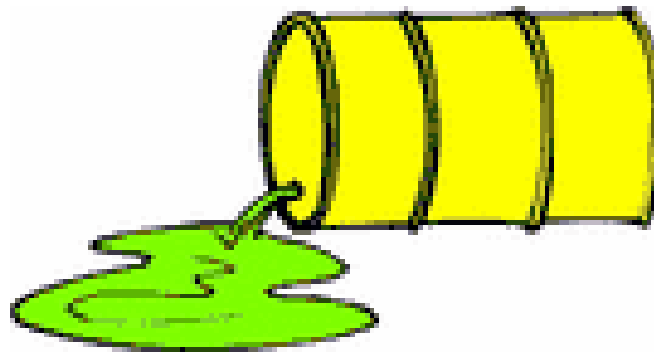
PPE (2 of 3)



- **Aprons**: Provides nominal body protection.
 - Butyl Rubber, Nitrile, or Plastic
- **Tyvek™ Coveralls**: Increased body protection.
 - Non-coated: for dusts and particulates
 - Coated: for sprays, mists, droplets, and light splashes
- **Safety Boots**: Steel toed foot protection.
- **Chemical Over-Boots**: Non-absorbent polyester for chemical splash protection.

PPE (3 of 3)

- Select the correct PPE when working with hazmat and cleaning up spills.
- Maintain PPE in good working condition by cleaning it after use and storing it properly between uses.
- Discard and replace degraded and unserviceable PPE.



DEMONSTRATION

- Demonstrate donning/doffing the PPE used in the various operations at your unit.
- Demonstrate PPE and skin decontamination (cleaning) with warm water and a mild detergent.
- Demonstrate the proper storage of PPE, i.e., respirators, aprons, eye protection, and gloves.

REVIEW

- Use PPE when working with hazmat.
- Use care when pouring, spraying, or dispensing hazmat.
- Keep shop towels and absorbent pads nearby.
- Clean up incidental spills immediately.
- Call 911 in case of emergencies!
- Sign-in on the Training Roster.

QUESTIONS?

- Contact your unit's Hazardous Waste Coordinator or your Group's Hazardous Waste Manager for hazmat assistance.
- Unit and Group HWCs should contact the Environmental Department's Waste Management Division at 577-1108 for questions regarding this presentation and/or for training assistance.